OIPE

RAW SEQUENCE LISTING DATE: 08/02/2001 PATENT APPLICATION: US/09/902,540 TIME: 09:59:06

Input Set : F:\Pa 00359.rpt

Output Set: N:\CRF3\08022001\I902540.raw

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      1 <110> APPLICANT: Goldman, Barry S.
             Hinkle, Gregory J.
             Slater, Steven C.
     3
             Wiegand, Roger C.
      6 <120> TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
     8 <130> FILE REFERENCE: 38-10(15849)B
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/902,540
C--> 10 <141> CURRENT FILING DATE: 2001-07-10
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    12 <151> PRIOR FILING DATE: 2000-07-10
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    27 tgcggctcat catgaccatc agggatgacg gctccgtcgc cgaggtgctg cccaccgage
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    31 ccgccgaggt cgacggcgtg cccgcgccgg tgcaggtgga gtatgtctac cacttcaccc
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    37 getgeggega ecacqeggae gegeeegagg tgatqteega egaggaegge egetteaege
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    53 cgggttcaag tcccgtactc ctcgctagaa agcccagcaa tcctccgggg ttgctgggct
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    55 tttctttttc ctctgtcccc ctatgtggcc tcagtgtgcc gctccggcac cgttggccgg
    57 ageggegtgg egetggaegt egegggeaag geggeggeat eeteegegga eetgegeagt
    59 cgacgtgctc gtggacgggg tccccaccgg gccccaggac gtgatggtcc agtqcqccca
    61 gaaggccgag gccctgcagg cgcccctgaa gcggggcgac gtggagctcc ggttccagga
    63 gggccagtgg aaggcctacg acgcggcgaa agcccacctc tccaaggggc gcaagagcga
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76 <223> OTHER INFORMATION: unsure at all n locations

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     84 teetggageg tgeeetgeee gegegetgge tggeegaege egegetgege accegegeee
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     86 tgcgccgctt cctggaagca gggcccgcgc tccgggagat ggggctgatg taccagttgc
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     88 tggccctgct ccggcgcacg cggccggatg gacgcttcgt ccatccgctg accgtcgtcg
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     90 acctgcccgc cacgggacac gcgctggcgc tggccgcctt gccccagcgc gtgctgtccc
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     92 tgatgcccgg agggcccatc ggacgcgacg tgcgggaggg gctcgacttc ctccaggatg
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     94 cgqcgcac cgcqatqqtc ctcqccaqcc tqccqqaqcc qctgcccqtc agcqaqqcqc
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     96 tcaccgtggc cgccgagctg cgccggctgg agctgccgct gtccgcggcc gtcctcaacc
     98 ggatgccgga ggaccccttc acgcccgagt cccgcgcccg cctgcaccgg atgctcgccg
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     114 ttctaaaatg ttttctgagc aaattcgttt tggaagatgc atggctgtca tcatgagaac
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     116 ctgcagcata tgattttgaa tcatgtcgcg tatggctccc gtatgatcat aataccctgc
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     120 attccacaat gattgcagta cagggttcgt aaattcaagc gcttctaaat tttgcaccat
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     122 cggtttacct aaataatgat caattcgata aatttcttct tctttaaacg tactgcttag
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     128 gaagtattet ggtgetaegg acaaataaaa caaacgattt cetttaette tatgagttgt
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     130 ttcttgctca ttcacaagct ttagcagctg tttgtaatct tctgttttgc ttgcgtctac
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     146 cagcgtggac atcttccagg cggtcccggt gggggctgag gccggtccga agtacctgcg
     148 caccggcgac ctggggctgc tgctggagga cgggcagctc atcgtcaccg gccggcgcaa
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     150 ggacctcatc atcctgcggg gccggaacct gtatccgcag gacgtggaga gcatcgtgga
     152 gcgggcccac cgcaaggtgc gtccaggctg catcgcggcg ttcgccatcg agactccaga
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     154 gggcgaggcc ctggcggtgg tcgcggaggt gtcgcgagac gtggcggagg gcgcggaccc
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     156 ggccgcgctg ggcgccgtgg cggacacgct gcggaaggcc attgtcgcgg agcttcaggt
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174 accatecttt cactatttte etttttttag acateaaaac taagattgag acataegtte
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176 accttaccaa agaaaaaatc cgaacgagtt ggattcttaa taaagaacct caattcatcg
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178 ttcggatttt ccttcaacta aaatactttg ttttaacgtc ttacttttga ttaaagttgt
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180 attetttte egtteegttt gaaaaaegaa ettgtaatte aaaegaetga aaatettttt
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182 tcaggccaaa cgcatcgatt acttcctttt ttacatcttc atcgggggtg cgctgatcaa
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184 aatttaactt tttaaatgtg gaagataatt tattaaacgc tttgtctccg ttcaagtgct
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186 catagacaat attatcatcc actttggctt gtatctcatc ggtttcattt tcatagccgg
188 cttcataatc attattaagc ccctttgaag gactactttt taaattcaaa ttttgcaaaa
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202 ccaqccggtg ctccaccttg gcttcatcca gcaccttgtg gacgatgtcc gggacggtca
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204 tetectggta gatgeggete ttgeggeggt ggegeagegt ceaeageege ggeaecaegg
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206 tggcgcggta gcggcgcgc tccgggccat tgccttcatc ccaccgtgac atgcgcgaca
                                                                        240
208 cgatgccgtg gaagaagcgc gcggtgccgt ctccgagcat gacggtgagc cgcggtcct
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210 ggcccagcag cgccttctca tccacgtcca cgtccgqccq ggcggccagt gcgacctcca
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212 ccgcqtaggg ctgggacagc gtctcctcgg cttcaaagcc aaggacggcc agctctccgg
214 cggtgaaggg ccctgcctgg aactcgaact cagcctggtt ggctttcaag gcggcgttcg
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216 cgatcatcca cagtccccca gcgcggggcc tcgtccatgg gattgggccc gattgtggtg
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218 cggcagcatg ccacgaattg gcgtaccagg ggggcctgac acgaaatttt cattgcggac
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220 gtgcgctggc actggagcga ccccattcca ggtcggactt cggtgtagag tggaaaaggg
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234 tatgctgcaa atgctgatga tgacggctat gcacttaccg gcccgcatta gcgctgatga
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236 tattcqaaac gaaaaaataa atgtgttaaa agcgcttcgt ccgcttgtaa aagaagatat
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238 ggatctagac gttqttcqcq gtcaatatqa gqctqqaaaa ataaacgqqq cttcaqtqcc
240 gagetacata aatgageeeg gtgtateace atetteteag aeggaeaegt ttttageage
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242 cagactatat atcgataatt cgctttggaa cggcgttcct ttctacattc gtacagggaa
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244 aagaatggcg gaaaaagcga cgcgaattgt tattgaattc aaagactcgc taaaagagtt
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246 gtacttagac aaaggagaaa caacatctcc aaatctgttg atcattgaaa ttaacccgca
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248 cgaaaatatt acgctgcagt taaacagcaa aaatccattt aatcatggtc atattgagcc
250 tgtacaaatt aatttttcag gtcagcaaga aggagcaccg gaagcatatg aacgccttat
                                                                        600
252 tgcagatgca tgcgccggag attctacatt ttttgctcat tggaaagaag tagagctagc
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254 ttgggaatgg gttcagccgc ttcttgaagc atttcaggaa aata
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258 <211> LENGTH: 638
259 <212> TYPE: DNA
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Input Set : F:\Pa\_00359.rpt
Output Set: N:\CRF3\08022001\I902540.raw

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	gtatcaacgt cttcttgttc					180
	accttcgcat ctagtacgta					240
	tcatcaaatt catcacgaat					300
	agcccgttg ttcctccata			-	_	360
	attttaagca ataagtcgta					420
	tacgtttgca cgggacgtgg		_			480
	ttaatattaa ctaatcccac					540
	gtatattgct ctactctage	-	-			600
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	tcctgcgaaa aaaagtgatg					120
298	gcttttttta tgagtttctt	gggaaacact	gatagaataa	ggaatgtaat	aaatttgtaa	180
	cactcttatc aaggtaattt		-		-	240
302	gtaagcgact tagatggaac	tcttttacac	gaagaaaaat	acgtagaaca	gcataatgca	300
304	gacgcactta gtgaacttca	gcgccaagga	gtagaggttt	gtcttgcttc	tggacgaatg	360
306	gatacggaaa ttctaaagat	ttctactgat	attaataata	catttcatcg	cattagccaa	420
308	aacggaggat ttgtgtggac	caaagaaaat	caagaacttc	atggaaaagt	gtttgaagat	480
310	gatttagcgg ttcaacttta	taaaaaaacg	atagatccta	accgtattac	gcttgtctgt	540
312	tcaaacgaca cgaattatgt	agagcagcga	aatgaaatta	ttgaagcaat	tgaaactcac	600
314	atgtttttcc ctatcgaaga	acaaattgaa	atgacagatt	catttggtca	cgctctttct	660
316	ccatctaaaa tcacggttct	tggagatcat	gatgaaatgg	tagctctg		708
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	tctacaatat aatgatcggg	_	-		-	180
	tcatcacgaa tttcaccgac			_	-	240
	gttccaccgt attcatcaat					300
	aataaatcat gaataggaat					360
	aaatctattt tttccttgct					420
	accattccaa taatatggtc				_	480
	tcttggacca tctcaaggat					540
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364 agtattaaaa atcatacaac gaagacagca gtagctgtta ggactatttc agctaaaaaa
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366 cgttttgcgc ttagcggtac gcctattgaa aactcacttg atgagctttg gtcaattttc
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368 cagaccattc ttcctggctt atttccaggg cttcgccagt ttaaaaacat gtcatcggag
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370 caggtcagcc gaattgtaag accattttta ctgcgacgag taaaaaaagga tgtgttaaaa
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372 gaactgcctg ataaaattga aaccactcat ttatctgagc tgactaaaga acaaaaagag
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374 ttgtatgtag gctatttaga gcagttaaaa tcatctttag ccggtgaaga ttttaataaa
376 aaccgaatga agatettgge gggattaaca agaettegee agatttgetg teateegtee
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378 ctattcgttg aaaattacga aggggattca agcaaattag agcagctgct ggagattaca
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380 agaaatgcgg ttgccaatgg aaaacgcttg ttaatctttt ctcagtttac aagcatgctt
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382 catattatte gagaagaget teaaaaagaa aatetetegt aettttattt agaeggteaa
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384 acqccatcaa aaqaacqagt ggaaatggcg gatcggttta ataatggaga acaagacatt
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386 ttettaattt cattaaaage eggaggeaeg ggtttaaatt taaegggage egataeggtt
388 attttatatq acttatqqtq gaaccccqcq attqaaqaac aagcqgcaqq ccgtqcacac
390 cgcattggac aaaaaaatgt ggtgcaggtc atcaagctta tttctcaagg aaccatcgaa
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392 gaaaaaattt acgccttgca gcaaaagaaa aaagaactca ttgaacaggt tattcagccg 1020
394 ggagaaacaa tgctttctag tttgacagaa gaagagctcc gagaactgct tagtatgtag 1080
396 caaaggatgt gtgaggaatg aaaaaatggg cgtttatatc aaattttgat ggaacgattt 1140
398 caaaaaaaga attttactgg attg
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402 <211> LENGTH: 579
403 <212> TYPE: DNA
404 <213> ORGANISM: Myxococcus xanthus
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412 gtagacttcc ttgatgcgct cctcggtggg cgcggggacc ttgtcgtcga tctccgcctt
414 cagatacgcc tcttgggaga ggccgcgctt cttggcctct gcatccacga gcttctccgt
416 caccatgccg tecaggccac getteaggag etgegaette tgetteteca ggttggeeag
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418 eggeteetgg aggegetege tgageteett gtaggtgate ttetgeeegt egeegaaegt
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420 cgcqacqaca gtgtcgggcg cgggctcacc cgcagcctgc tgcgccgcgg gagcggtggc
                                                                       420
                                                                       480
422 eggegeette teettigttae ageeggeggt gaaggaggee geeaggageg eegegaggat
424 gacgcggttg ggacggttga gcatatcccg cccacttagc cgagccttac cggacctqca
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429 <210> SEQ ID NO: 14
430 <211> LENGTH: 603
431 <212> TYPE: DNA
432 <213> ORGANISM: Myxococcus xanthus
434 <220> FEATURE:
435 <221> NAME/KEY: unsure
436 <222> LOCATION: (1)..(603)
437 <223> OTHER INFORMATION: unsure at all n locations
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443 ctcgacgcgg cggcgcttgc gcatggagtc cgcggcgatg ttgcccagcg gcgagtcacc
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## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

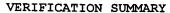
## VERIFICATION SUMMARY

DATE: 08/02/2001 PATENT APPLICATION: US/09/902,540 TIME: 09:59:07

Input Set : F:\Pa 00359.rpt

Output Set: N:\CRF3\08022001\I902540.raw

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:2666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:3706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104
L:4113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:4926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:5221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138
L:5462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
                    "n" or "Xaa" used, for SEQ ID#:184
L:7583 M:341 W: (46)
                    "n" or "Xaa" used, for SEQ ID#:189
L:7826 M:341 W: (46)
L:8659 M:341 W: (46)
                    "n" or "Xaa" used, for SEQ ID#:204
L:8661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L\!:\!8904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208
L:9057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211
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L:10329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233
L:11406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:252
L:12899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278
L:13408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286
L:13855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293
L:13872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:294
L:13918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:294
L:13995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:295
L:14104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296
L:14169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297
L:14171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:297
L:14222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298
L:15143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:312
L:15728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:321
L:16155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:328
L:16778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338
L:16845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:17046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342
L:17048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342
L:17911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355
L:18316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361
L:20945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:400
L:24110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:440
L:24451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444
L:24910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449
L:24967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450
L:25160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:452
L:25487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456
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PATENT APPLICATION: US/09/902,540

DATE: 08/02/2001 TIME: 09:59:07

Input Set : F:\Pa\_00359.rpt

Output Set: N:\CRF3\08022001\1902540.raw

L:26054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:463 L:27385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:476 L:29220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:493 L:32115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519